



SEQUENCE LISTING

<110> Amatani, Takuya
Tezuka, Katsunari

<120> CELL SURFACE MOLECULE MEDIATING CELL
ADHESION AND SIGNAL TRANSMISSION

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<140> US 09/383,551

<141> 1999-08-26

<150> PCT/JP98/00837

<151> 1998-02-27

<150> JAPAN 09-62290

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Phe	His	Asn	Gly	Gly	Val	Gln	Ile	Leu	Cys	Lys	Tyr	Pro	Asp	Ile	Val	
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Gln	Gln	Phe	Lys	Met	Gln	Leu	Leu	Lys	Gly	Gly	Gln	Ile	Leu	Cys	Asp	
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ctc	act	aag	aca	aaa	gga	agt	gga	aac	aca	gtg	tcc	att	aag	agt	ctg	240
Leu	Thr	Lys	Thr	Lys	Gly	Ser	Gly	Asn	Thr	Val	Ser	Ile	Lys	Ser	Leu	
65						70				75					80	

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Lys Phe Cys His Ser Gln Leu Ser Asn Asn Ser Val Ser Phe Phe Leu	
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tac aac ttg gac cat tct cat gcc aac tat tac ttc tgc aac cta tca	336
Tyr Asn Leu Asp His Ser His Ala Asn Tyr Tyr Phe Cys Asn Leu Ser	
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att ttt gat cct cct cct ttt aaa gta act ctt aca gga gga tat ttg	384
Ile Phe Asp Pro Pro Pro Phe Lys Val Thr Leu Thr Gly Gly Tyr Leu	
115 120 125	
cat att tat gaa tca caa ctt tgt tgc cag ctg aag ttc tgg tta ccc	432
His Ile Tyr Glu Ser Gln Leu Cys Cys Gln Leu Lys Phe Trp Leu Pro	
130 135 140	
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145 150 155 160	
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Ile Cys Trp Leu Thr Lys Lys Lys Tyr Ser Ser Ser Val His Asp Pro	
165 170 175	
aac ggt gaa tac atg ttc atg aga gca gtg aac aca gcc aaa aaa tct	576
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Phe His Asn Gly Gly Val Gln Ile Leu Cys Lys Tyr Pro Asp Ile Val	
35 40 45	
Gln Gln Phe Lys Met Gln Leu Lys Gly Gly Gln Ile Leu Cys Asp	
50 55 60	
Leu Thr Lys Thr Lys Gly Ser Gly Asn Thr Val Ser Ile Lys Ser Leu	
65 70 75 80	
Lys Phe Cys His Ser Gln Leu Ser Asn Asn Ser Val Ser Phe Phe Leu	
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Tyr Asn Leu Asp His Ser His Ala Asn Tyr Tyr Phe Cys Asn Leu Ser	
100 105 110	
Ile Phe Asp Pro Pro Pro Phe Lys Val Thr Leu Thr Gly Gly Tyr Leu	
115 120 125	
His Ile Tyr Glu Ser Gln Leu Cys Cys Gln Leu Lys Phe Trp Leu Pro	
130 135 140	

Ile Gly Cys Ala Ala Phe Val Val Val Cys Ile Leu Gly Cys Ile Leu
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 Ile Cys Trp Leu Thr Lys Lys Lys Tyr Ser Ser Ser Val His Asp Pro
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 Ala Asn Tyr Glu Met Phe Ile Phe His Asn Gly Gly Val Gln Ile Leu
 30 35 40
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 Cys Lys Tyr Pro Asp Ile Val Gln Gln Phe Lys Met Gln Leu Leu Lys
 45 50 55
 ggg ggg caa ata ctc tgc gat ctc act aag aca aaa gga agt gga aac 244
 Gly Gly Gln Ile Leu Cys Asp Leu Thr Lys Thr Lys Gly Ser Gly Asn
 60 65 70
 aca gtg tcc att aag agt ctg aaa ttc tgc cat tct cag tta tcc aac 292
 Thr Val Ser Ile Lys Ser Leu Lys Phe Cys His Ser Gln Leu Ser Asn
 75 80 85
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 Asn Ser Val Ser Phe Phe Leu Tyr Asn Leu Asp His Ser His Ala Asn
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 Tyr Tyr Phe Cys Asn Leu Ser Ile Phe Asp Pro Pro Pro Phe Lys Val
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 act ctt aca gga gga tat ttg cat att tat gaa tca caa ctt tgt tgc 436
 Thr Leu Thr Gly Gly Tyr Leu His Ile Tyr Glu Ser Gln Leu Cys Cys
 125 130 135
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 Gln Leu Lys Phe Trp Leu Pro Ile Gly Cys Ala Ala Phe Val Val Val

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155	160	165	
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<213> Rattus norvegicus

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<221> CDS

<222> (35) ... (634)

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Val Phe Val Phe Cys Phe Leu Ile Lys Leu Leu Thr Gly Glu Leu Asn
10 15 20

gac ttg gcc aat cac agg atg ttt tcg ttt cac gat gga ggt gta cag 151
Asp Leu Ala Asn His Arg Met Phe Ser Phe His Asp Gly Gly Val Gln
25 30 35

att tct tgt aac tac cct gag act gtc cag cag tta aaa atg cag ttg 199
Ile Ser Cys Asn Tyr Pro Glu Thr Val Gln Gln Leu Lys Met Gln Leu
40 45 50 55

ttc aaa gac aga gaa gtc ctc tgc gac ctc acc aag acc aag gga agc 247
Phe Lys Asp Arg Glu Val Leu Cys Asp Leu Thr Lys Thr Lys Gly Ser
60 65 70

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Gly Asn Thr Val Ser Ile Lys Asn Pro Met Ser Cys Pro Tyr Gln Leu
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90 95 100

ggc agc tac ttt tta tgc agc ctg tcg att ttc gac cca ccc cct ttt 391
Gly Ser Tyr Phe Leu Cys Ser Leu Ser Ile Phe Asp Pro Pro Pro Phe
105 110 115

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Gln Glu Lys Asn Leu Ser Gly Gly Tyr Leu Leu Ile Tyr Glu Ser Gln
120 125 130 135

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140 145 150

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Val Ala Ala Leu Leu Phe Gly Cys Ile Phe Ile Val Trp Phe Ala Lys
155 160 165

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Lys Lys Tyr Arg Ser Ser Val His Asp Pro Asn Ser Glu Tyr Met Phe
170 175 180

atg gcg gca gtc aac aca aac aaa aag tcc aga ctt gca ggt atg acc 631
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185 190 195

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Ser
200

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ctt tta aca gga gaa atc aat ggc tgc gcc gat cat agg atg ttt tca 96
Leu Leu Thr Gly Glu Ile Asn Gly Ser Ala Asp His Arg Met Phe Ser
20 25 30

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ttt cac aat gga ggt gta cag att tct tgt aaa tac cct gag act gtc 144
Phe His Asn Gly Gly Val Gln Ile Ser Cys Lys Tyr Pro Glu Thr Val
35 40 45

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cag cag tta aaa atg cga ttg ttc aga gag aga gaa gtc ctc tgc gaa 192
Gln Gln Leu Lys Met Arg Leu Phe Arg Glu Arg Glu Val Leu Cys Glu
50 55 60

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ctc acc aag acc aag gga agc gga aat gcg gtg tcc atc aag aat cca 240
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65 70 75 80

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atg ctc tgt cta tat cat ctg tca aac aac agc gtc tct ttt ttc cta 288

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Asn	Asn	Pro	Asp	Ser	Ser	Gln	Gly	Ser	Tyr	Tyr	Phe	Cys	Ser	Leu	Ser		
			100					105					110				
att	ttt	gac	cca	cct	cct	ttt	caa	gaa	agg	aac	ctt	agt	gga	gga	tat		384
Ile	Phe	Asp	Pro	Pro	Pro	Phe	Gln	Glu	Arg	Asn	Leu	Ser	Gly	Gly	Tyr		
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Pro	Asn	Ser	Glu	Tyr	Met	Phe	Met	Ala	Ala	Val	Asn	Thr	Asn	Lys	Lys		
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		1			5												
gtc	ttt	gtc	ttc	tgc	ttc	cta	atc	aaa	ctt	tta	aca	gga	gaa	ctc	aat		103
Val	Phe	Val	Phe	Cys	Phe	Leu	Ile	Lys	Leu	Leu	Thr	Gly	Glu	Leu	Asn		
		10				15					20						
gac	ttg	gcc	aat	cac	agg	atg	ttt	tcg	ttt	cac	gat	gga	ggt	gta	cag		151
Asp	Leu	Ala	Asn	His	Arg	Met	Phe	Ser	Phe	His	Asp	Gly	Gly	Val	Gln		
	25				30				35								
att	tct	tgt	aac	tac	cct	gag	act	gtc	cag	cag	tta	aaa	atg	cag	ttg		199
Ile	Ser	Cys	Asn	Tyr	Pro	Glu	Thr	Val	Gln	Gln	Leu	Lys	Met	Gln	Leu		
	40				45				50					55			

ttc aaa gac aga gaa gtc ctc tgc gac ctc acc aag acc aag gga agc 247
Phe Lys Asp Arg Glu Val Leu Cys Asp Leu Thr Lys Thr Lys Gly Ser
60 65 70

gga aac acc gtg tcc atc aag aat ccg atg tcc tgt cca tat cag ctg 295
Gly Asn Thr Val Ser Ile Lys Asn Pro Met Ser Cys Pro Tyr Gln Leu
75 80 85

tcc aac aac agt gtc tct ttt ttc cta gac aac gca gac agc tcc cag 343
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90 95 100

ggc agc tac ttt tta tgc agc ctg tcg att ttc gac cca ccc cct ttt 391
Gly Ser Tyr Phe Leu Cys Ser Leu Ser Ile Phe Asp Pro Pro Pro Phe
105 110 115

caa gaa aag aac ctt agt gga gga tat ttg ctt att tat gaa tcc cag 439
Gln Glu Lys Asn Leu Ser Gly Gly Tyr Leu Leu Ile Tyr Glu Ser Gln
120 125 130 135

ctt tgt tgc cag ctg aag ctt tgg tta ccc gta ggg tgt gca gct ttt 487
Leu Cys Cys Gln Leu Lys Leu Trp Leu Pro Val Gly Cys Ala Ala Phe
140 145 150

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Val Ala Ala Leu Leu Phe Gly Cys Ile Phe Ile Val Trp Phe Ala Lys
155 160 165

aag aag tac aga tcc agt gtg cac gac cct aat agc gag tac atg ttc 583
Lys Lys Tyr Arg Ser Ser Val His Asp Pro Asn Ser Glu Tyr Met Phe
170 175 180

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Met Ala Ala Val Asn Thr Asn Lys Lys Ser Arg Leu Ala Gly Thr Ala
185 190 195

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Pro Leu Arg Ala Leu Gly Arg Gly Glu His Ser Ser Cys Gln Asp Arg
200 205 210 215

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Asn

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<223> primer for PCR

<400> 11

cgtgatattg ctgaagagct tggcggcgaa tgggc

35

<210> 12

<211> 34

<212> DNA

<213> Artificial Sequence

<220>

<223> primer for PCR

<400> 12

cattcaagtt tcagggaact agtccatgcg tttc

34

<210> 13
 <211> 200
 <212> PRT
 <213> Rattus norvegicus

<400> 13

Met	Lys	Pro	Tyr	Phe	Ser	Cys	Val	Phe	Val	Phe	Cys	Phe	Leu	Ile	Lys
1				5					10					15	
Leu	Leu	Thr	Gly	Glu	Leu	Asn	Asp	Leu	Ala	Asn	His	Arg	Met	Phe	Ser
			20					25					30		
Phe	His	Asp	Gly	Gly	Val	Gln	Ile	Ser	Cys	Asn	Tyr	Pro	Glu	Thr	Val
		35				40						45			
Gln	Gln	Leu	Lys	Met	Gln	Leu	Phe	Lys	Asp	Arg	Glu	Val	Leu	Cys	Asp
	50					55					60				
Leu	Thr	Lys	Thr	Lys	Gly	Ser	Gly	Asn	Thr	Val	Ser	Ile	Lys	Asn	Pro
65					70					75				80	
Met	Ser	Cys	Pro	Tyr	Gln	Leu	Ser	Asn	Asn	Ser	Val	Ser	Phe	Phe	Leu
				85					90					95	
Asp	Asn	Ala	Asp	Ser	Ser	Gln	Gly	Ser	Tyr	Phe	Leu	Cys	Ser	Leu	Ser
			100					105					110		
Ile	Phe	Asp	Pro	Pro	Pro	Phe	Gln	Glu	Lys	Asn	Leu	Ser	Gly	Gly	Tyr
		115					120					125			
Leu	Leu	Ile	Tyr	Glu	Ser	Gln	Leu	Cys	Cys	Gln	Leu	Lys	Leu	Trp	Leu
	130					135					140				
Pro	Val	Gly	Cys	Ala	Ala	Phe	Val	Ala	Ala	Leu	Phe	Gly	Cys	Ile	
145					150					155				160	
Phe	Ile	Val	Trp	Phe	Ala	Lys	Lys	Lys	Tyr	Arg	Ser	Ser	Val	His	Asp
				165					170					175	
Pro	Asn	Ser	Glu	Tyr	Met	Phe	Met	Ala	Ala	Val	Asn	Thr	Asn	Lys	Lys
			180					185					190		
Ser	Arg	Leu	Ala	Gly	Met	Thr	Ser								
		195					200								

<210> 14
 <211> 200
 <212> PRT
 <213> Mus musculus

<400> 14

Met	Lys	Pro	Tyr	Phe	Cys	His	Val	Phe	Val	Phe	Cys	Phe	Leu	Ile	Arg
1				5					10					15	
Leu	Leu	Thr	Gly	Glu	Ile	Asn	Gly	Ser	Ala	Asp	His	Arg	Met	Phe	Ser
			20					25					30		
Phe	His	Asn	Gly	Gly	Val	Gln	Ile	Ser	Cys	Lys	Tyr	Pro	Glu	Thr	Val
		35				40						45			
Gln	Gln	Leu	Lys	Met	Arg	Leu	Phe	Arg	Glu	Arg	Glu	Val	Leu	Cys	Glu
	50					55					60				
Leu	Thr	Lys	Thr	Lys	Gly	Ser	Gly	Asn	Ala	Val	Ser	Ile	Lys	Asn	Pro
65					70					75				80	
Met	Leu	Cys	Leu	Tyr	His	Leu	Ser	Asn	Asn	Ser	Val	Ser	Phe	Phe	Leu
				85					90					95	
Asn	Asn	Pro	Asp	Ser	Ser	Gln	Gly	Ser	Tyr	Tyr	Phe	Cys	Ser	Leu	Ser
			100					105					110		
Ile	Phe	Asp	Pro	Pro	Pro	Phe	Gln	Glu	Arg	Asn	Leu	Ser	Gly	Gly	Tyr
		115					120					125			
Leu	His	Ile	Tyr	Glu	Ser	Gln	Leu	Cys	Cys	Gln	Leu	Lys	Leu	Trp	Leu
	130					135					140				

```

Pro Val Gly Leu Pro Ala Phe Val Val Val Leu Leu Phe Gly Cys Ile
145          150          155          160
Leu Ile Ile Trp Phe Ser Lys Lys Lys Tyr Gly Ser Ser Val His Asp
          165          170          175
Pro Asn Ser Glu Tyr Met Phe Met Ala Val Asn Thr Asn Lys Lys
          180          185          190
Ser Arg Leu Ala Gly Val Thr Ser
          195          200

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<210> 15
 <211> 216
 <212> PRT
 <213> Rattus norvegicus

```

<400> 15
Met Lys Pro Tyr Phe Ser Cys Val Phe Val Phe Cys Phe Leu Ile Lys
1      5      10
Leu Leu Thr Gly Glu Leu Asn Asp Leu Ala Asn His Arg Met Phe Ser
          20      25      30
Phe His Asp Gly Gly Val Gln Ile Ser Cys Asn Tyr Pro Glu Thr Val
          35      40      45
Gln Gln Leu Lys Met Gln Leu Phe Lys Asp Arg Glu Val Leu Cys Asp
          50      55      60
Leu Thr Lys Thr Lys Gly Ser Gly Asn Thr Val Ser Ile Lys Asn Pro
65      70      75      80
Met Ser Cys Pro Tyr Gln Leu Ser Asn Asn Ser Val Ser Phe Phe Leu
          85      90      95
Asp Asn Ala Asp Ser Ser Gln Gly Ser Tyr Phe Leu Cys Ser Leu Ser
          100     105     110
Ile Phe Asp Pro Pro Pro Phe Gln Glu Lys Asn Leu Ser Gly Gly Tyr
          115     120     125
Leu Leu Ile Tyr Glu Ser Gln Leu Cys Cys Gln Leu Lys Leu Trp Leu
          130     135     140
Pro Val Gly Cys Ala Ala Phe Val Ala Ala Leu Leu Phe Gly Cys Ile
145          150          155          160
Phe Ile Val Trp Phe Ala Lys Lys Lys Tyr Arg Ser Ser Val His Asp
          165          170          175
Pro Asn Ser Glu Tyr Met Phe Met Ala Ala Val Asn Thr Asn Lys Lys
          180          185          190
Ser Arg Leu Ala Gly Thr Ala Pro Leu Arg Ala Leu Gly Arg Gly Glu
          195          200          205
His Ser Ser Cys Gln Asp Arg Asn
          210          215

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<210> 16
 <211> 200
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> consensus sequence

<221> VARIANT
 <222> (1)...(200)
 <223> Xaa = Any Amino Acid

<400> 16

Met	Lys	Pro	Tyr	Phe	Xaa	Xaa	Val	Phe	Val	Phe	Cys	Phe	Leu	Ile	Lys
1				5					10					15	
Leu	Leu	Thr	Gly	Glu	Xaa	Asn	Xaa	Xaa	Ala	Asn	His	Arg	Met	Phe	Ser
			20					25					30		
Phe	His	Xaa	Gly	Gly	Val	Gln	Ile	Ser	Cys	Xaa	Tyr	Pro	Glu	Thr	Val
		35				40					45				
Gln	Gln	Leu	Lys	Met	Gln	Leu	Phe	Lys	Xaa	Arg	Glu	Val	Leu	Cys	Asp
	50					55				60					
Leu	Thr	Lys	Thr	Lys	Gly	Ser	Gly	Asn	Thr	Val	Ser	Ile	Lys	Asn	Pro
65					70					75					80
Met	Xaa	Cys	Xaa	Tyr	Gln	Leu	Ser	Asn	Asn	Ser	Val	Ser	Phe	Phe	Leu
				85					90					95	
Xaa	Asn	Xaa	Asp	Ser	Ser	Gln	Gly	Ser	Tyr	Xaa	Xaa	Cys	Ser	Leu	Ser
			100					105					110		
Ile	Phe	Asp	Pro	Pro	Pro	Phe	Gln	Glu	Xaa	Asn	Leu	Ser	Gly	Gly	Tyr
		115					120					125			
Leu	Xaa	Ile	Tyr	Glu	Ser	Gln	Leu	Cys	Cys	Gln	Leu	Lys	Leu	Trp	Leu
	130					135					140				
Pro	Val	Gly	Cys	Ala	Ala	Phe	Val	Xaa	Xaa	Leu	Leu	Phe	Gly	Cys	Ile
145					150					155					160
Xaa	Ile	Xaa	Trp	Phe	Xaa	Lys	Lys	Lys	Tyr	Xaa	Ser	Ser	Val	His	Asp
			165						170					175	
Pro	Asn	Ser	Glu	Tyr	Met	Phe	Met	Ala	Ala	Val	Asn	Thr	Asn	Lys	Lys
			180					185					190		
Ser	Arg	Leu	Ala	Gly	Xaa	Thr	Xaa								
		195					200								

<210> 17

<211> 214

<212> PRT

<213> Artificial Sequence

<220>

<223> consensus sequence

<221> VARIANT

<222> (1)...(214)

<223> Xaa = Any Amino Acid

<400> 17

Met	Leu	Xaa	Leu	Xaa	Leu	Ala	Trp	Xaa	Leu	Xaa	Leu	Phe	Xaa	Leu	Xaa
1				5					10					15	
Ile	Xaa	Val	Xaa	Xaa	Xaa	Xaa	Ile	Xaa	Val	Xaa	Gln	Xaa	Xaa	Xaa	Xaa
			20					25					30		
Xaa	Ala	Xaa	Xaa	Asn	Gly	Xaa	Xaa	Xaa	Xaa	Xaa	Cys	Lys	Tyr	Xaa	Xaa
		35				40					45				
Pro	Xaa	Xaa	Xaa	Xaa	Glu	Phe	Arg	Xaa	Xaa	Leu	Leu	Lys	Gly	Xaa	Asp
	50					55					60				
Ser	Xaa	Val	Xaa	Xaa	Cys	Xaa	Xaa	Xaa	Xaa	Thr	Tyr	Xaa	Xaa	Gly	Asn
65					70					75					80
Xaa	Val	Xaa	Xaa	Lys	Xaa	Xaa	Xaa	Xaa	Cys	Xaa	Gly	Xaa	Leu	Ser	Asn
				85					90				95		
Asn	Ser	Val	Xaa	Phe	Xaa	Leu	Gln	Asn	Leu	Xaa	Xaa	Xaa	Xaa	Thr	Xaa
			100					105					110		
Xaa	Tyr	Phe	Cys	Lys	Xaa	Glu	Xaa	Met	Tyr	Pro	Pro	Pro	Tyr	Xaa	Xaa
		115					120					125			
Xaa	Xaa	Xaa	Asn	Gly	Thr	Xaa	Ile	His	Val	Xaa	Xaa	Xaa	Xaa	Leu	Cys

130		135		140
Pro Xaa Xaa Xaa Phe Xaa Xaa Trp Xaa Leu Xaa Xaa Val Xaa Xaa Xaa				
145		150		155
Leu Xaa Xaa Tyr Ser Xaa Leu Xaa Thr Ala Xaa Ile Xaa Xaa Xaa Xaa				160
		165		170
Xaa Lys Lys Arg Ser Xaa Leu Xaa Xaa Gly Xaa Tyr Met Xaa Met Xaa				175
		180		185
Pro Xaa Xaa Pro Xaa Xaa Xaa Xaa Lys Xaa Xaa Gln Pro Tyr Xaa Xaa				190
		195		200
Asp Phe Xaa Xaa Xaa Xaa				205
210				

<210> 18
 <211> 6
 <212> PRT
 <213> Homo sapiens

<400> 18
 Met Tyr Pro Pro Pro Tyr
 1 5

<210> 19
 <211> 4
 <212> PRT
 <213> Homo sapiens

<400> 19
 Tyr Met Asn Met
 1

<210> 20
 <211> 4
 <212> PRT
 <213> Homo sapiens

<400> 20
 Tyr Val Lys Met
 1

<210> 21
 <211> 6
 <212> PRT
 <213> Homo sapiens

<400> 21
 Phe Asp Pro Pro Pro Phe
 1 5

<210> 22
 <211> 4
 <212> PRT
 <213> Homo sapiens

<400> 22
 Tyr Met Phe Met
 1

<210> 23
 <211> 216
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> consensus sequence

<221> VARIANT
 <222> (1)...(216)
 <223> Xaa = Any Amino Acid

<400> 23
 Met Lys Pro Tyr Phe Ser Cys Val Phe Val Phe Cys Phe Leu Ile Lys
 1 5 10 15
 Leu Leu Thr Gly Glu Leu Asn Asp Leu Ala Asn His Arg Met Phe Ser
 20 25 30
 Phe His Asp Gly Gly Val Gln Ile Ser Cys Asn Tyr Pro Glu Thr Val
 35 40 45
 Gln Gln Leu Lys Met Gln Leu Phe Lys Asp Arg Glu Val Leu Cys Asp
 50 55 60
 Leu Thr Lys Thr Lys Gly Ser Gly Asn Thr Val Ser Ile Lys Asn Pro
 65 70 75 80
 Met Ser Cys Pro Tyr Gln Leu Ser Asn Asn Ser Val Ser Phe Phe Leu
 85 90 95
 Asp Asn Ala Asp Ser Ser Gln Gly Ser Tyr Phe Leu Cys Ser Leu Ser
 100 105 110
 Ile Phe Asp Pro Pro Pro Phe Gln Glu Lys Asn Leu Ser Gly Gly Tyr
 115 120 125
 Leu Leu Ile Tyr Glu Ser Gln Leu Cys Cys Gln Leu Lys Leu Trp Leu
 130 135 140
 Pro Val Gly Cys Ala Ala Phe Val Ala Ala Leu Leu Phe Gly Cys Ile
 145 150 155 160
 Phe Ile Val Trp Phe Ala Lys Lys Lys Tyr Arg Ser Ser Val His Asp
 165 170 175
 Pro Asn Ser Glu Tyr Met Phe Met Ala Ala Val Asn Thr Asn Lys Lys
 180 185 190
 Ser Arg Leu Ala Gly Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 195 200 205
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 210 215

<210> 24
 <211> 16
 <212> PRT
 <213> Rattus norvegicus

<400> 24
 Leu Arg Ala Leu Gly Arg Gly Glu His Ser Ser Cys Gln Asp Arg Asn
 1 5 10 15

<210> 25
 <211> 220
 <212> PRT
 <213> Homo sapiens

<400> 25

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Met Leu Arg Leu Leu Leu Ala Leu Asn Leu Phe Pro Ser Ile Gln Val
1      5      10      15
Thr Gly Asn Lys Ile Leu Val Lys Gln Ser Pro Met Leu Val Ala Tyr
20      25      30
Asp Asn Ala Val Asn Leu Ser Cys Lys Tyr Ser Tyr Asn Leu Phe Ser
35      40      45
Arg Glu Phe Arg Ala Ser Leu His Lys Gly Leu Asp Ser Ala Val Glu
50      55      60
Val Cys Val Val Tyr Gly Asn Tyr Ser Gln Gln Leu Gln Val Tyr Ser
65      70      75      80
Lys Thr Gly Phe Asn Cys Asp Gly Lys Leu Gly Asn Glu Ser Val Thr
85      90      95
Phe Tyr Leu Gln Asn Leu Tyr Val Asn Gln Thr Asp Ile Tyr Phe Cys
100     105     110
Lys Ile Glu Val Met Tyr Pro Pro Pro Tyr Leu Asp Asn Glu Lys Ser
115     120     125
Asn Gly Thr Ile Ile His Val Lys Gly Lys His Leu Cys Pro Ser Pro
130     135     140
Leu Phe Pro Gly Pro Ser Lys Pro Phe Trp Val Leu Val Val Val Gly
145     150     155     160
Gly Val Leu Ala Cys Tyr Ser Leu Leu Val Thr Val Ala Phe Ile Ile
165     170     175
Phe Trp Val Arg Ser Lys Arg Ser Arg Leu Leu His Ser Asp Tyr Met
180     185     190
Asn Met Thr Pro Arg Arg Pro Gly Pro Thr Arg Lys His Tyr Gln Pro
195     200     205
Tyr Ala Pro Pro Arg Asp Phe Ala Ala Tyr Arg Ser
210     215     220

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<210> 26

<211> 223

<212> PRT

<213> Homo sapiens

<400> 26

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Met Ala Cys Leu Gly Phe Gln Arg His Lys Ala Gln Leu Asn Leu Ala
1      5      10      15
Ala Arg Thr Trp Pro Cys Thr Leu Leu Phe Phe Leu Leu Phe Ile Pro
20      25      30
Val Phe Cys Lys Ala Met His Val Ala Gln Pro Ala Val Val Leu Ala
35      40      45
Ser Ser Arg Gly Ile Ala Ser Phe Val Cys Glu Tyr Ala Ser Pro Gly
50      55      60
Lys Ala Tyr Glu Val Arg Val Thr Val Leu Arg Gln Ala Asp Ser Gln
65      70      75      80
Val Thr Glu Val Cys Ala Ala Thr Tyr Met Thr Gly Asn Glu Leu Thr
85      90      95
Phe Leu Asp Asp Ser Ile Cys Thr Gly Thr Ser Ser Gly Asn Gln Val
100     105     110
Asn Leu Thr Ile Gln Gly Leu Arg Ala Met Asp Thr Gly Leu Tyr Ile
115     120     125
Cys Lys Val Glu Leu Met Tyr Pro Pro Pro Tyr Tyr Leu Gly Ile Gly
130     135     140
Asn Gly Thr Gln Ile Tyr Val Ile Asp Pro Glu Pro Cys Pro Asp Ser
145     150     155     160
Asp Phe Leu Leu Trp Ile Leu Ala Ala Val Ser Ser Gly Leu Phe Phe
165     170     175

```

Tyr	Ser	Phe	Leu	Leu	Thr	Ala	Val	Ser	Leu	Ser	Lys	Met	Leu	Lys	Lys
			180					185					190		
Arg	Ser	Pro	Leu	Thr	Thr	Gly	Val	Tyr	Val	Lys	Met	Pro	Pro	Thr	Glu
		195					200					205			
Pro	Glu	Cys	Glu	Lys	Gln	Phe	Gln	Pro	Tyr	Phe	Ile	Pro	Ile	Asn	
	210					215					220				